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ABSTRACT

This monograph presents the computer printout of an analysis of data on international cooperation over a three-year period. Part of a large scale research project to test various theories with regard to their power in analyzing international relations, this monograph presents data on the application of discriminant function analysis to combined 'topdog' and 'underdog' behavior among nations (TU actors) in light of relative status field theory. Field theory maintains that international relations consists of all the attributes and interactions of nations, can be analytically divided into attributes and behavior, and exhibits dyad formations (interactions between two nations) in matters of behavior. Relative status field theory presents a break with the status field theory approach in that it argues that status relationships ought to be treated in relative terms. Scores on variables including domestic violence, population density, economic development, political stability, and power base were compared for each nation to determine relative status. Field theory was applied to a single index for the three-year period in question--the WEIS conflict data (World Event Interaction Survey), which was created using the "New York Times" as a data source. The method involved assigning a negative or positive parameter weight on each predictive factor (such as economic development) which indicates the kind of behavior engaged in by that nation relative to other states. Nations were then assigned a status--a combined 'topdog'/'underdog' in this analysis. Approximately 30 nations were assigned a TU actors status. Findings indicated that TU actor nations exhibited cooperative behavior export patterns with regard to nations with relatively little domestic violence, small GNP growth rate, small population growth rate, and high per capita internal security force. (DB)

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ATTRIBUTES AND NATIONAL BEHAVIOR, PART 2: MODERN INTERNATIONAL RELATIONS MONOGRAPH SERIES.
PATTERNS OF COOPERATION: RELATIVE STATUS-FIELD THEORY, TU ACTORS

ED194388

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TAPE SPECS ARE: 9 TRACK, 800 BPI, EBCDIC, 132 CHARACTER RECORDS, 2400 FEET.

NOTE! SINCE THE CODEBOOK WAS PUBLISHED, MONOGRAPHS 1-6, 10, 27 AND 39 HAVE BEEN FURTHER EDITED, REDUNDANCY REMOVED AND GATHERED TOGETHER UNDER THE TITLE OF: PROJECT THEORY: INTERPRETATIONS AND POLICY RELEVANCE. THIS COLECTION MAY BE FOUND IN FILE 8. SINCE IT IS UPDATED, IT IS RECOMENDED THAT THIS FILE BE USED INSTEAD-OF THE ORIGINAL MATERIALS IN THE APPROPRIATE CASES. IN THE CASE OF THE OTHER FILES, THEY RETAIN THE ORIGINAL BUILT-IN REDUNDANCY.

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NOTE: ALL MONOGRAPHS ON TAPE ARE SET UP TO PRINT ON A UNIVAC DOCUMENT PROCESSOR. SPECIAL PROGRAMS TO ASSIST IN PRINTING ON A DECWRITER II FOR UPPER AND LOWER CASE, DOUBLE SPACE, LENGTH ADJUSTED FOR THE DECWRITER AND WITH FOOTNOTE CAPABILITY, ARE CONTAINED IN MONOGRAPH 26. TABLES OR FIGURES THAT GO BEYOND 80 COLUMNS MAY BE FOLDED IF THE DOCUMENT PROCESSOR IS USED. IF THIS IS UNDESIRABLE, THEY CAN BE PRINTED BY OTHER STANDARD PRINT COMMANDS, SUCH AS AN EDITOR PROGRAM, WHICH CAN PRINT, WITHOUT FOLDING, TO 132 COLUMNS. ALSO, DOCUMENT COMMANDS ARE INVISIBLE IN THE COPY ONLY IF THE DOCUMENT PROCESSOR IS USED. IF OTHER PRINT COMMANDS ARE USED, THE DOCUMENT COMMANDS WILL BE VISIBLE, I.E., WILL APPEAR AS >DOUBLE>, >SPACE>, ETC. AND ARE LEFT JUSTIFIED. IF THEY ARE NOT NEEDED, THEY CAN BE IGNORED OR EDITED OUT. ALL MONOGRAPHS ARE IN MIXED UPPER AND LOWER CASE, EXCEPT MONOGRAPHS 19 AND 26, WHICH ARE IN UPPER CASE ONLY.

Attributes and National Behavior:

Modern International Relations Monograph Series

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PATTERNS OF COOPERATION: RELATIVE STATUS-FIELD THEORY, TU ACTORS

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THE ANALYSIS THAT FOLLOWS IS A COMPONENT OF A LARGER RESEARCH EFFORT THE PURPOSE OF WHICH IS TO TEST ATTRIBUTE THEORY (RUMMEL, 1969A), SOCIAL FIELD THEORY (RUMMEL, 1969A), DISTANCE THEORY (VINCENT, 1975), AND RELATIVE STATUS-FIELD THEORY, TREATING RELATIVE T = TOPDOG AND U = UNDERDOG BEHAVIOR IN THE INTERNATIONAL SYSTEM (VINCENT, 1976). ALL THEORIES ARE TESTED ON THE SAME, 1966-69, WEIS (AGGREGATED) DATA.

FULL TECHNICAL TREATMENT OF THE THEORIES AND METHODS IS GIVEN ELSEWHERE AND WILL NOT BE REPEATED HERE. THAT IS, DETAILS, SUCH AS THE CONSTRUCTION OF A-SPACE (ATIRIBUTE SPACE) OR D-SPACE (DISTANCE SPACE), ETC. CAN BE OBTAINED FROM THE RELEVANT BIBLIGRAPHIC ENTRIES. ELABORATE TECHNICAL DISCUSIONS, HOWEVER, ARE NOT REALLY NECESSARY TO UNDERSTAND OR USE THE RESULTS GENERATED HERE. IT SHOULD BE CLEAR, HOWEVER, THAT ALL OF THE INDEPENDENT VARIABLES TREATED, SUCH AS ECONOMIC DEVELOPMENT, ARE >FACTORS>, THAT IS, COMPOSITE INDEXES GENERATED OUT OF A NUMBER OF RELATED VARIABLES, USING THE TECHNIQUE OF FACTOR ANALYSIS.

WHEN THE THEORIES ARE APPLIED, EACH NATION RECIEVES A NEGATIVE OR POSITIVE PARAMETER WEIGHT ON EACH PREDICTIVE FACTOR, SUCH AS ECONOMIC DEVELOPMENT, WHICH INDICATES THE KIND OF BEHAVIORAL EXPORTATION ENGAGED IN BY THAT STATE RELATIVE TO OTHER STATES.

THE ANALYSIS PRESENTED HERE INDICATES THE RESULTS THAT OCCUR WHEN + TYPE NATION EXPORTERS ARE COMPARED TO - TYPE NATION EXPORTERS IN TERMS OF SIMILARITY OF MODEL AND ATTRIBUTE TYPE.

THIS WILL BE ACCOMPLISHED BY TWO MODES OF ANALYSIS.

THE FIRST MODE WILL BE TO PERFORM A FACTOR ANALYSIS ON THE WEIGHTS OF THE NATIONS ACROSS THE PREDICTOR DIMENSIONS. THE SECOND WILL BE TO CORRELATE THE FACTOR SCORES OF A-SPACE WITH THE FACTOR SCORES GENERATED FROM THE ANALYSIS OF THE WEIGHTS.

THESE MODES OF ANALYSIS WILL SHOW HOW CONFLICT EXPORT PATTERNS CLUSTER, HOW NATIONS ARE, IN FACT, LOCATED ON SUCH CLUSTERS AND REVEAL CHARACTERISTICS OF + VS. - WEIGHT NATIONS.

THE RESULTS FOLLOW:

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RELATIVE STATUS-FIELD THEORY, TU, COOPERATION

I'S WITH + SCORES ON THE FACTOR DIMENSION TEND TO EXPORT HIGH COOPERATION TO J'S WITH THE CHARACTERISTICS, RELATIVE TO I, OF:

VARIABLE NUMBER 1

21 LITTLE ETHNO-LINGUISTIC FRACTIONALIZATION, BELOW
.79

15 HIGH PER CAPITA INTERNAL SECURITY FORCE, BELOW
.70

18 HIGH RATIO OF BLACK MARKET TO OFFICIAL EXCHANGE, ABOVE
-.67

20 LOW CRUDE DEATH RATE, ABOVE
-.85

THESE I'S ARE:

VARIABLE NUMBER 1

29 DENMARK
1.44

25 CUBA
1.42

127 MALDIVE ISLANDS

1.38

54 FINLAND

1.34

121 ZAMBIA

1.27

124 SINGAPORE

.90

126 MALAYSIA

.83

2 ALBANIA

.83

74 NICARAGUA

.73

119 MALTA

.72

77 NORWAY

.69

62 LIBERIA

.63

10 BULGARIA

.60

16 CENTRAL AFRICAN REP

.45

108 URUGUAY

.30

7 BELGIUM

.19

94 SWEDEN

.14

THEY TEND TO HAVE THE CHARACTERISTICS OF:

SMALL POPULATION GROWTH RATE

LARGE CHRISTIAN COMMUNITY

LITTLE DOMESTIC VIOLENCE

SMALL GNP GROWTH RATE

I'S WITH - SCORES ON THE FACTOR DIMENSION TEND TO EXPORT HIGH COOPERATION TO J'S WITH THE CHARACTERISTICS, RELATIVE TO I, OF:

VARIABLE NUMBER 1

21 LITTLE ETHNO-LINGUISTIC FRACTIONALIZATION, ABOVE

.79

15 HIGH PER CAPITA INTERNAL SECURITY FORCE, ABOVE

.70

18 HIGH RATIO OF BLACK MARKET TO OFFICIAL EXCHANGE, BELOW

-.67

20 LOW CRUDE DEATH RATE, BELOW

-.85

THESE I'S ARE:

6 AUSTRIA

-.02

109 VENEZUELA

-.04

40 GREECE

-.17

73 NEW ZEALAND

-.18

26 CYPRUS

-.23

88 SENEGAL

-.39

61 LEBANON

-.70

95 SWITZERLAND

-.73

51 IRELAND

-.82

30 DOMINICAN REPUBLIC

-.92

50 IRAQ

-1.19

52 ISRAEL

-1.43

63 LIBYA

-1.48

116 KUWAIT

-1.76

57 JORDAN

-1.80

96 SYRIA

-2.00

THEY TEND TO HAVE THE CHARACTERISTICS OF:

LARGE POPULATION GROWTH RATE

SMALL CHRISTIAN COMMUNITY

MUCH DOMESTIC VIOLENCE

HIGH GNP GROWTH RATE

I'S WITH + SCORES ON THE FACTOR DIMENSION TEND TO EXPORT HIGH COOPERATION TO J'S WITH THE CHARACTERISTICS, RELATIVE TO I, OF:

VARIABLE NUMBER 2

12 LARGE GNP GROWTH RATE, BELOW

.78

09 LITTLE DOMESTIC VIOLENCE, BELOW

.73

04 NON-COMPETITIVE POLITICAL SYSTEM, BELOW

.67

22 NEW CURRENCY, BELOW

.60

13 SMALL HEALTH EXPENDITURE AS PERCENT OF GNP, ABOVE

-.68

THESE I'S ARE:

VARIABLE NUMBER 2

95 SWITZERLAND
1.94
73 NEW ZEALAND
1.81
94 SWEDEN
1.46
51 IRELAND
1.39
126 MALAYSIA
.99
74 NICARAGUA
.77
62 LIBERIA
.76
10 BULGARIA
.76
109 VENEZUELA
.68
16 CENTRAL AFRICAN REP
.50

7 BELGIUM

.49

124 SINGAPORE

.45

108 URUGUAY

.42

26 CYPRUS

.38

121 ZAMBIA

.28

88 SENEGAL

.23

52 ISRAEL

.22

63 LIBYA

.17

116 KUWAIT

.05

THEY TEND TO HAVE THE CHARACTERISTICS OF:

I'S WITH - SCORES ON THE FACTOR DIMENSION TEND TO EXPORT HIGH COOPERATION TO J'S WITH THE CHARACTERISTICS, RELATIVE TO I, OF:

VARIABLE NUMBER 2

12 LARGE GNP GROWTH RATE, ABOVE

.78

09 LITTLE DOMESTIC VIOLENCE, ABOVE

.73

04 NON-COMPETITIVE POLITICAL SYSTEM, ABOVE

.67

22 NEW CURRENCY, ABOVE

.60

13 SMALL HEALTH EXPENDITURE AS PERCENT OF GNP, BELOW

-.68

THESE I'S ARE:

77 NORWAY

-.04

40 GREECE

-.34

2 ALBANIA

-.36

6 AUSTRIA

-.47

30 DOMINICAN REPUBLIC

-.73

34 FINLAND

-.84

25 CUBA

-1.05

61 LEBANON

-1.06

127 MALDIVE ISLANDS

-1.09

50 IRAQ

-1.23

96 SYRIA

-1.40

57 JORDAN

-1.49

119 MALTA

-1.65

29 DENMARK

-1.99

THEY TEND TO HAVE THE CHARACTERISTICS OF:

I'S WITH + SCORES ON THE FACTOR DIMENSION TEND TO EXPORT HIGH COOPERATION TO J'S WITH THE CHARACTERISTICS, RELATIVE TO I, OF:

VARIABLE NUMBER 3

11 FEW MILITARY PERSONNEL PER CAPITA, BELOW

.74

07 SMALL CHRISTIAN COMMUNITY, ABOVE

-.62

03 POLITICAL INSTABILITY, ABOVE

-.67

14 HIGH PER CAPITA SCHOOL ENROLLMENT, ABOVE

-.80

THESE I'S ARE:

VARIABLE NUMBER 3

77 NORWAY

1.35

50 IRAQ

1.34

52 ISRAEL

1.31

116 KUWAIT

1.19

61 LEBANON

1.15

10 BULGARIA

.98

126 MALAYSIA

.94

124 SINGAPORE

.91

26 CYPRUS

.89

73 NEW ZEALAND

.82

25 CUBA

.55

34 FINLAND

.55

7 BELGIUM

.51

127 MALDIVE ISLANDS

.50

94 SWEDEN

.48

62 LIBERIA

.40

40 GREECE

.23

6 AUSTRIA

.11

51 IRELAND

.06

THEY TEND TO HAVE THE CHARACTERISTICS OF:

HIGH ECONOMIC DEVELOPMENT

SMALL CHRISTIAN COMMUNITY

I'S WITH - SCORES ON THE FACTOR DIMENSION TEND TO EXPORT HIGH COOPERATION TO J'S WITH THE CHARACTERISTICS, RELATIVE TO I, OF:

VARIABLE NUMBER 3

11 FEW MILITARY PERSONNEL PER CAPITA, ABOVE
.74

07 SMALL CHRISTIAN COMMUNITY, BELOW
-.62

03 POLITICAL INSTABILITY, BELOW
-.67

14 HIGH PER CAPITA SCHOOL ENROLLMENT, BELOW
-.80

THESE I'S ARE:

96 SYRIA
-.29

109 VENEZUELA
-.32

29 DENMARK
-.33

119 MALTA

-.52

2 ALBANIA

-.57

57 JORDAN

-.59

95 SWITZERLAND

-.93

88 SENEGAL

-.99

63 LIBYA

-1.36

74 NICARAGUA

-1.40

121 ZAMBIA

-1.57

16 CENTRAL AFRICAN REP

-1.61

108 URUGUAY

-1.66

30 DOMINICAN REPUBLIC

-2.13

THEY TEND TO HAVE THE CHARACTERISTICS OF:

LOW ECONOMIC DEVELOPMENT

LARGE CHRISTIAN COMMUNITY

I'S WITH + SCORES ON THE FACTOR DIMENSION TEND TO EXPORT HIGH COOPERATION TO J'S WITH THE CHARACTERISTICS, RELATIVE TO I, OF:

VARIABLE NUMBER 4

01 ECONOMIC DEVELOPMENT, CLOSE BELOW
-.69

06 SMALL POPULATION DENSITY, ABOVE
-.80

THESE I'S ARE:

VARIABLE NUMBER 4

7 BELGIUM
1.70

6 AUSTRIA
1.68

10 BULGARIA
1.60

30 DOMINICAN REPUBLIC
1.36

94 SWEDEN
1.15

25 CUBA
1.14

108 URUGUAY

1.12

52 ISRAEL

.87

29 DENMARK

.79

109 VENEZUELA

.67

77 NORWAY

.67

95 SWITZERLAND

.64

73 NEW ZEALAND

.33

50 IRAQ

.30

127 MALDIVE ISLANDS

.11

34 FINLAND

.08

THEY TEND TO HAVE THE CHARACTERISTICS OF:

HIGH POWER BASE

MANY EXECUTIVE ADJUSTMENTS

LONG NATIONAL INDEPENDENCE

I'S WITH - SCORES ON THE FACTOR DIMENSION TEND TO EXPORT HIGH COOPERATION TO J'S WITH THE CHARACTERISTICS, RELATIVE TO I, OF:

VARIABLE NUMBER 4

01 ECONOMIC DEVELOPMENT, FAR BELOW
-.69

06 SMALL POPULATION DENSITY, BELOW
-.80

THESE I'S ARE:

63 LIBYA
-.04

74 NICARAGUA
-.26

61 LEBANON
-.32

116 KUWAIT
-.33

16 CENTRAL AFRICAN REP
-.41

57 JORDAN
-.62

51 IRELAND
-.65

40 GREECE

-.67

119 MALTA

-.70

88 SENEGAL

-.76

96 SYRIA

-.88

121 ZAMBIA

-1.06

2 ALBANIA

-1.24

62 LIBERIA

-1.42

124 SINGAPORE

-1.43

26 CYPRUS

-1.65

126 MALAYSIA

-1.77

THEY TEND TO HAVE THE CHARACTERISTICS OF:

SMALL POWER BASE

FEW EXECUTIVE ADJUSTMENTS

RECENT NATIONAL INDEPENDENCE

I'S WITH + SCORES ON THE FACTOR DIMENSION TEND TO EXPORT HIGH COOPERATION TO J'S WITH THE CHARACTERISTICS, RELATIVE TO I, OF:

VARIABLE NUMBER 5

05 SMALL POPULATION GROWTH RATE, BELOW
.82

02 POWER BASE, CLOSE ABOVE
.72

16 HIGH ENERGY PRODUCTION, BELOW
.67

THESE I'S ARE:

VARIABLE NUMBER 5

74 NICARAGUA
2.59

61 LEBANON
2.11

88 SENEGAL
2.06

62 LIBERIA
1.34

116 KUWAIT
.80

16 CENTRAL AFRICAN REP

.73

126 MALAYSIA

.64

30 DOMINICAN REPUBLIC

.51

10 BULGARIA

.39

50 IRAQ

.35

25 CUBA

.34

108 URUGUAY

.28

57 JORDAN

.27

73 NEW ZEALAND

.26

94 SWEDEN

.10

29 DENMARK

.06

THEY TEND TO HAVE THE CHARACTERISTICS OF:

LOW ECONOMIC DEVELOPMENT

I'S WITH - SCORES ON THE FACTOR DIMENSION TEND TO EXPORT HIGH COOPERATION TO J'S WITH THE CHARACTERISTICS, RELATIVE TO I, OF:

VARIABLE NUMBER 5

05 SMALL POPULATION GROWTH RATE, ABOVE
.82
02 POWER BASE, FAR ABOVE
.72
16 HIGH ENERGY PRODUCTION, ABOVE
.67

THESE I'S ARE:

52 ISRAEL
-.13
127 MALDIVE ISLANDS
-.32
6 AUSTRIA
-.35
7 BELGIUM
-.38
109 VENEZUELA
-.46
26 CYPRUS
-.50

96 SYRIA

-.51

124 SINGAPORE

-.56

77 NORWAY

-.66

40 GREECE

-.68

34 FINLAND

-.71

95 SWITZERLAND

-.89

121 ZAMBIA

-.92

2 ALBANIA

-1.10

119 MALTA

-1.17

63 LIBYA

-1.45

51 IRELAND

-2.04

THEY TEND TO HAVE THE CHARACTERISTICS OF:

HIGH ECONOMIC DEVELOPMENT

I'S WITH + SCORES ON THE FACTOR DIMENSION TEND TO EXPORT HIGH COOPERATION TO J'S WITH THE CHARACTERISTICS, RELATIVE TO I, OF:

VARIABLE NUMBER 6

08 RECENT NATIONAL INDEPENDENCE, BELOW
.67

17 MANY ELECTIONS, ABOVE
-.58

19 FEW EXECUTIVE ADJUSTMENTS, ABOVE
-.72

THESE I'S ARE:

VARIABLE NUMBER 6

30 DOMINICAN REPUBLIC
2.17

26 CYPRUS
2.00

108 URUGUAY
1.74

40 GREECE
1.56

119 MALTA
1.53

62 LIBERIA

1.25

77 NORWAY

.92

25 CUBA

.76

73 NEW ZEALAND

.28

109 VENEZUELA

.27

50 IRAQ

.20

74 NICARAGUA

.19

51 IRELAND

.03

94 SWEDEN

.01

THEY TEND TO HAVE THE CHARACTERISTICS OF:

SMALL GNP GROWTH RATE AT FIXED PRICES

I'S WITH - SCORES ON THE FACTOR DIMENSION TEND TO EXPORT HIGH COOPERATION TO J'S WITH THE CHARACTERISTICS, RELATIVE TO I, OF:

VARIABLE NUMBER 6

08 RECENT NATIONAL INDEPENDENCE, ABOVE
.67
17 MANY ELECTIONS, BELOW
-.58
19 FEW EXECUTIVE ADJUSTMENTS, BELOW
-.72

THESE I'S ARE:

6 AUSTRIA
-.04
2 ALBANIA
-.15
52 ISRAEL
-.16
124 SINGAPORE
-.29
95 SWITZERLAND
-.29
126 MALAYSIA
-.31
116 KUWAIT
-.36
127 MALDIVE ISLANDS
-.49

61 LEBANON

-.50

63 LIBYA

-.65

34 FINLAND

-.66

96 SYRIA

-.81

88 SENEGAL

-.81

10 BULGARIA

-.85

16 CENTRAL AFRICAN REP

-.95

29 DENMARK

-.96

57 JORDAN

-1.02

7 BELGIUM

-1.63

121 ZAMBIA

-2.00

THEY TEND TO HAVE THE CHARACTERISTICS OF:

LARGE GNP GROWTH RATE AT FIXED PRICES

I'S WITH + SCORES ON THE FACTOR DIMENSION TEND TO EXPORT HIGH COOPERATION TO J'S WITH THE CHARACTERISTICS, RELATIVE TO I, OF:

VARIABLE NUMBER 7

10 LARGE GNP GROWTH RATE AT FIXED PRICES, BELOW
.86

THESE I'S ARE:

VARIABLE NUMBER 7

2 ALBANIA
1.85
40 GREECE
1.44
74 NICARAGUA
1.31
26 CYPRUS
1.19
109 VENEZUELA
.95
95 SWITZERLAND
.88
77 NORWAY
.75
88 SENEGAL

.54

96 SYRIA

.51

73 NEW ZEALAND

.48

29 DENMARK

.34

121 ZAMBIA

.34

50 IRAQ

.33

62 LIBERIA

.29

10 BULGARIA

.28

94 SWEDEN

.25

7 BELGIUM

.22

119 MALTA

.05

THEY TEND TO HAVE THE CHARACTERISTICS OF:

LONG NATIONAL INDEPENDENCE

LARGE GNP GROWTH RATE

I'S WITH - SCORES ON THE FACTOR DIMENSION TEND TO EXPORT HIGH COOPERATION TO J'S WITH THE CHARACTERISTICS, RELATIVE TO I, OF:

VARIABLE NUMBER 7

10 LARGE GNP GROWTH RATE AT FIXED PRICES, ABOVE
.86

THESE I'S ARE:

127 MALDIVE ISLANDS
-.03

116 KUWAIT
-.04

57 JORDAN
-.14

61 LEBANON
-.24

52 ISRAEL
-.25

34 FINLAND
-.33

16 CENTRAL AFRICAN REP
-.35

25 CUBA
-.40

6 AUSTRIA

-.50

63 LIBYA

-.67

108 URUGUAY

-.87

51 IRELAND

-.88

30 DOMINICAN REPUBLIC

-2.10

124 SINGAPORE

-2.59

126 MALAYSIA

-2.62

THEY TEND TO HAVE THE CHARACTERISTICS OF:

RECENT NATIONAL INDEPENDENCE

SMALL GNP GROWTH RATE